



BUREAU
VERITAS

TEST REPORT

测试报告

LAB NO. 报告号码 : (9324)060-1062
DATE 完成日期 : Mar 12, 2024
PAGE 页码 : 1 OF 12

APPLICANT : **SUZHOU ANLAIQIANG ELECTRONIC TECHNOLOGY CO.,LTD**
NORTH OF THE 4TH FLOOR OF PLANT 4 #, NO. 599, TAISHAN ROAD, SUZHOU NEW DISTRICT
申请人公司名称 苏州安来强电子科技有限公司
苏州市高新区泰山路 599 号 4# 厂房四层北

CONTACT PERSON :
联系人名称

DATE OF SUBMISSION : Feb 29, 2024
样品收取日期 2024 年 02 月 29 日

TEST PERIOD : Feb 29, 2024 to Mar 11, 2024
所需工作周期 2024 年 02 月 29 日至 2024 年 03 月 11 日

SAMPLE DESCRIPTION : 直流接触器
样品描述

Color: 颜色 /

Style No/ Model no.: 款号 EVQ50-100-135-150

P.O. No.: /
订单号

Country of Origin: /
来源地

Country of Destination: /
目的地

BURER : /
买家

MANUFACTURER : /
制造商

RW

Bureau Veritas Consumer Products Services (Guangzhou) Co., Ltd
No. 183, Shinan Road, Meilin Plaza, Dongchong, Nansha, Guangzhou, Guangdong Province, China 511453
Tel: (86) 20 2290 2088 Fax: (86) 20 3490 9303
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SUMMARY OF TEST RESULTS
测试结果摘要

TEST REQUESTED 测试项目	CONCLUSION 结论	REMARK 备注
Compliance Test - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments (EU) 2015/863 合规测试 - 有关欧盟委员会针对电子产品的指令 (电子电气禁用某些有害物质指令), 2011/65/EU 及其修订版(EU) 2015/863	PASS 通过	

BUREAU VERITAS CONSUMER PRODUCTS SERVICES (GUANGZHOU) CO., LTD

KENNY WANG
OPERATION MANAGER



REMARK

If there are questions or concerns on this report, please contact the following persons:

- a) GENERAL TEL: (86)755 83437287
FAX: (86)755 83439100
b) BUSINESS SZ TEL: (86)755 21534695
FAX: (86)755 83439100
BUSINESS GZ TEL: (86) 20 87148525
FAX: (86) 20 87148528

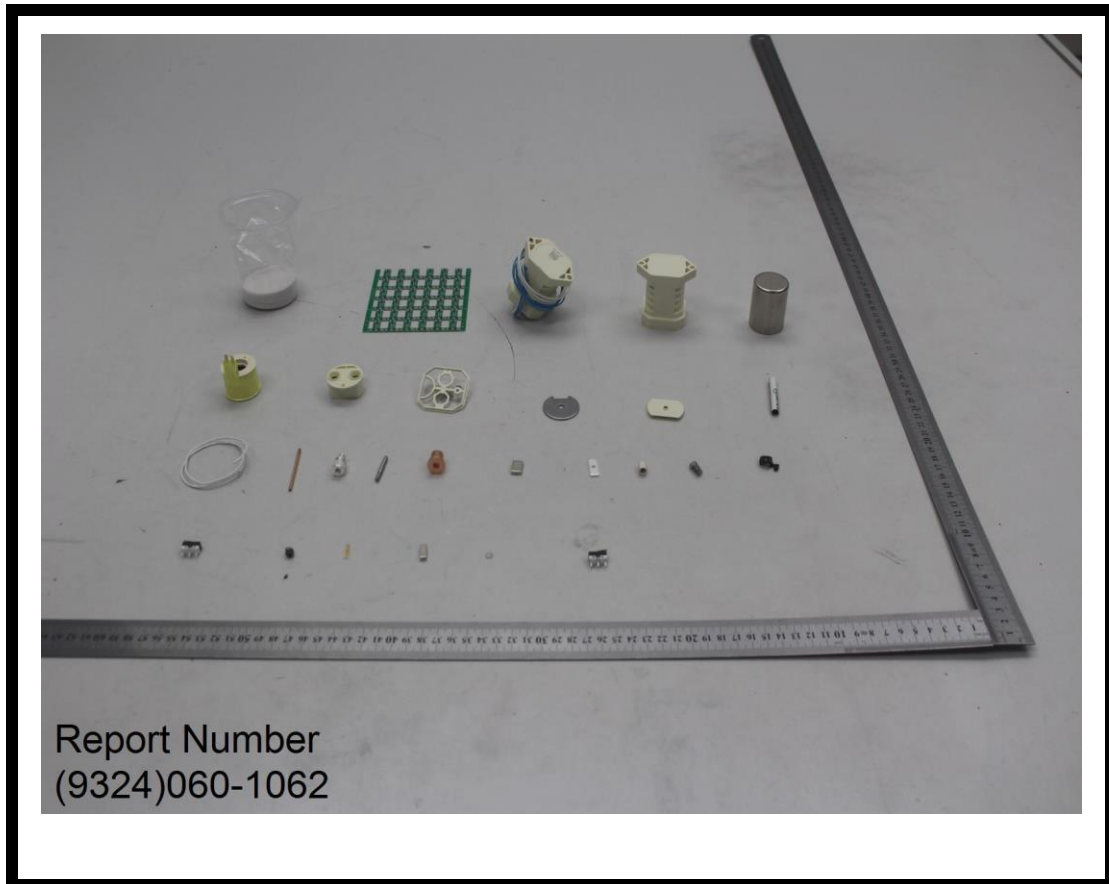
EMAIL: eechemical.sc@bureauveritas.com
WEBSITE: cps.bureauveritas.cn

广州必维技术检测有限公司

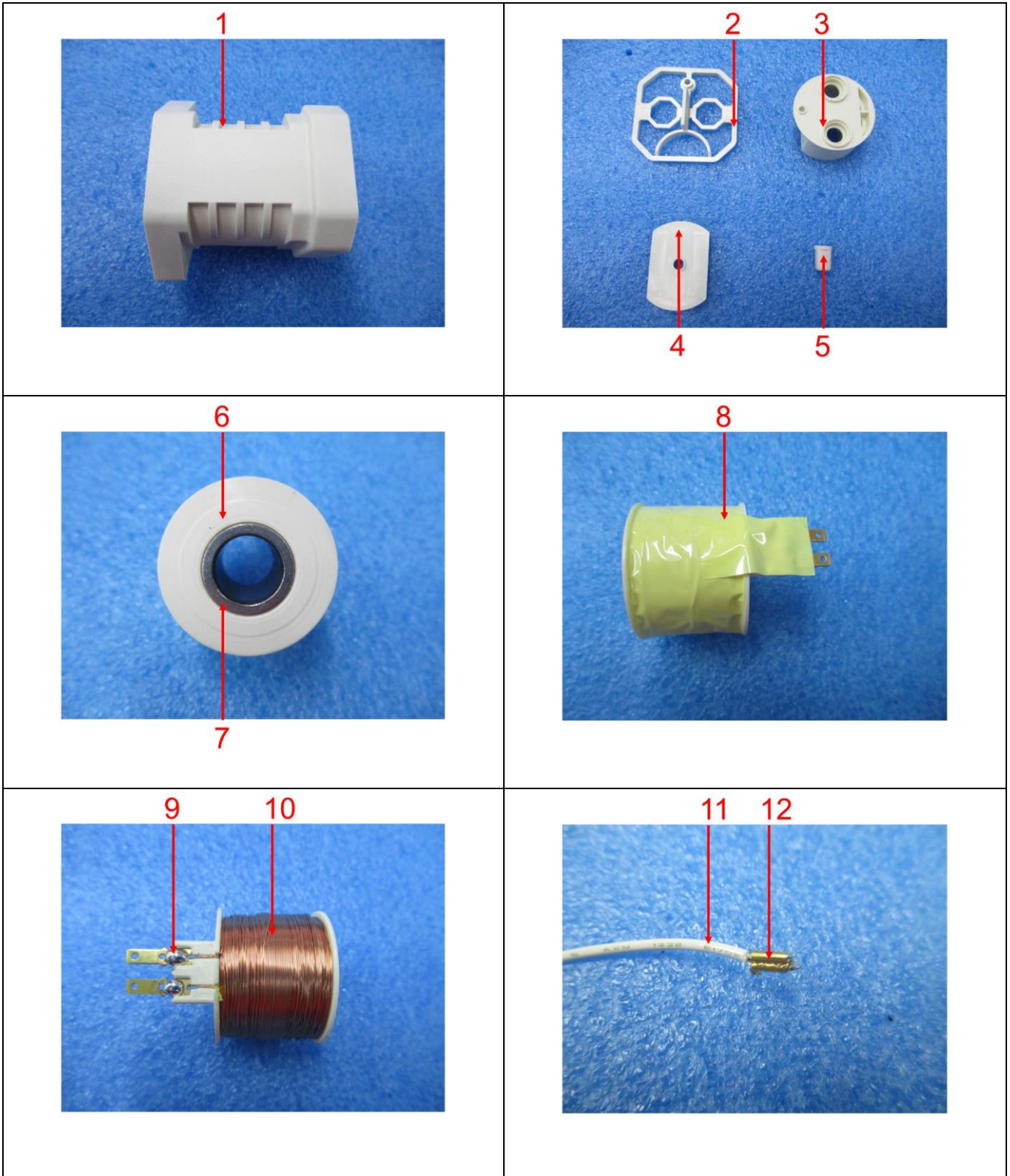
中国广东省广州市南沙区市南路东涌段 183 号 美林广场
(邮政编码: 511453)
电话: (86) 20 2290 2088 传真: (86) 20 3490 9303
电子邮箱: BVCPS_pyinfo@cn.bureauveritas.com
网站: cps.bureauveritas.com

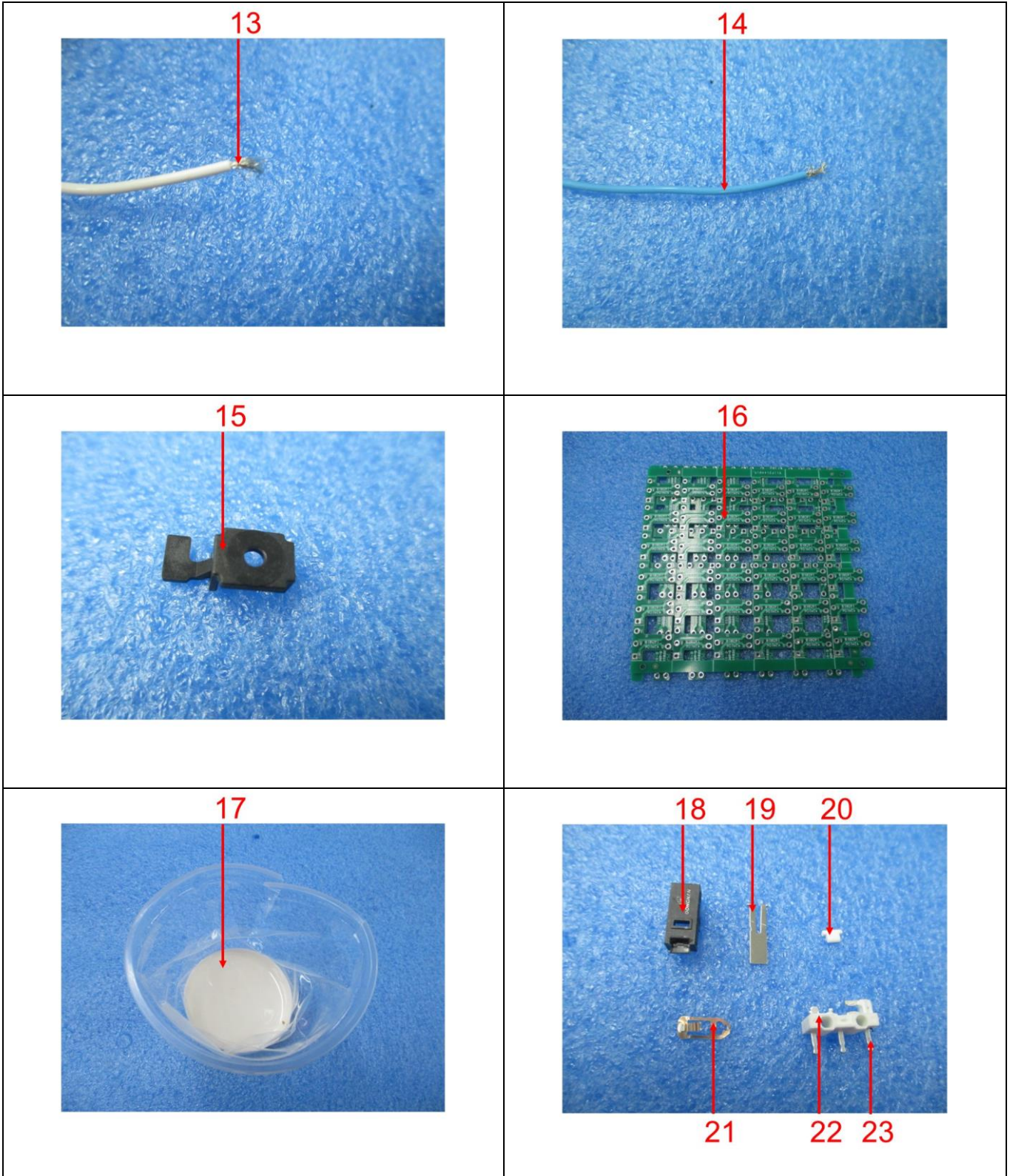
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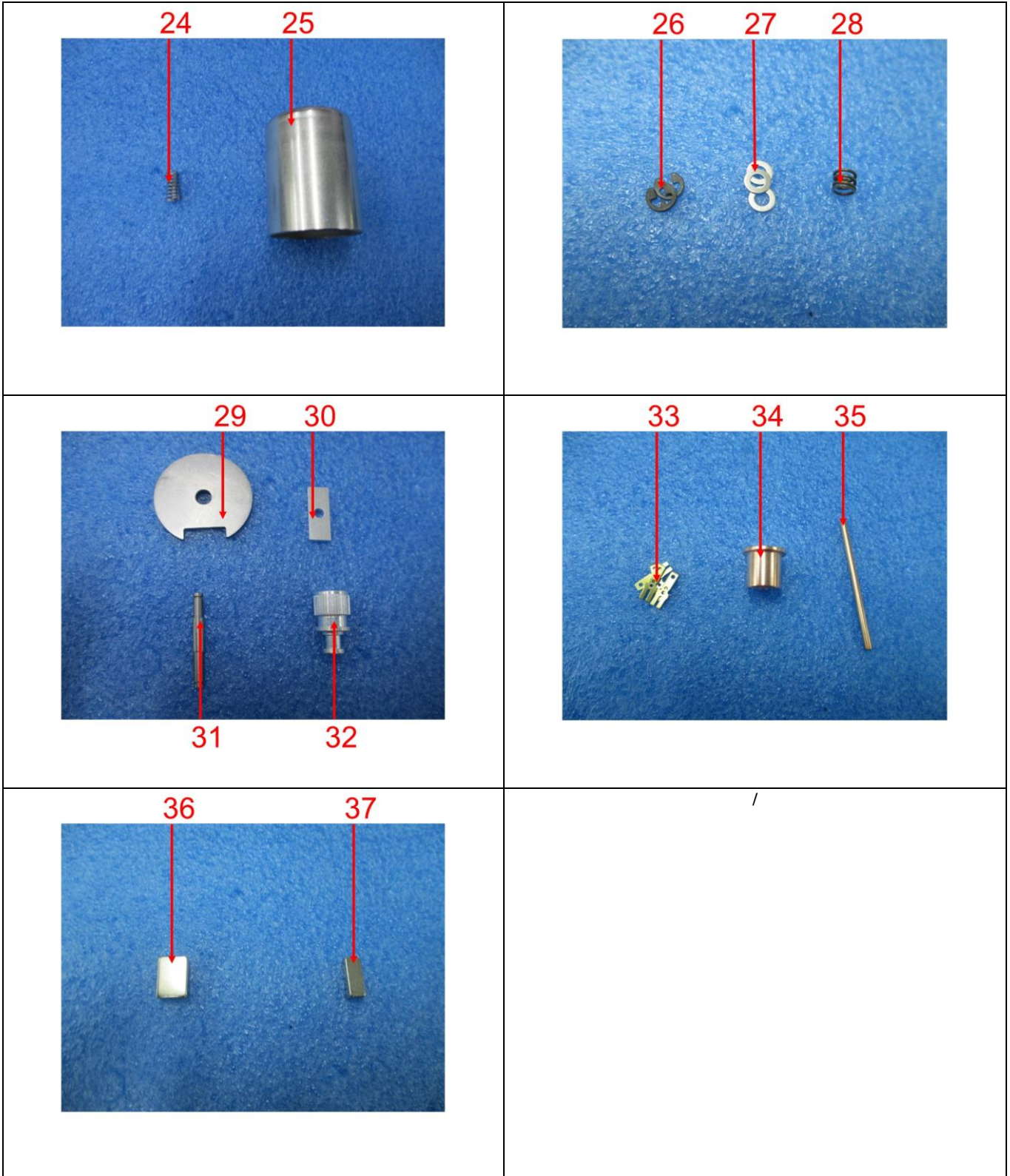
Photo of the Submitted Sample
递交样品照片



Photograph of test item(s)
样品图片









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TEST RESULT
测试结果

Compliance Test - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments (EU) 2015/863
合规测试 - 有关欧盟委员会针对电子产品的指令(电子电气禁用某些有害物质指令), 2011/65/EU 及其修订版(EU) 2015/863

Test Method : See Appendix.
测试方法 见附录

Test Item(s) 测试项目	Item / Component Description(s) + Location(s) 项目 / 部件描述 + 位置	Style(s) 款式
1	米色塑料(外壳) Beige plastic (case)	-
2	米色塑料(支架) Beige plastic (bracket)	-
3	米色塑料(底) Beige plastic (base)	-
4	米色塑料(板) Beige plastic (plate)	-
5	白色塑料(帽) White plastic (cap)	-
6	米色塑料(线圈座) Beige plastic (coil holder)	-
7	银色金属(管子) Silvery metal (tube)	-
8	黄色软塑带粘性(带子) Yellow soft plastic with adhesive (tape)	-
9	银色焊锡 Silvery solder	-
10	铜色金属(线圈) Coppery metal (coil)	-
11	黑色印白色软塑(线皮) Black printed white soft plastic (wire jacket)	-
12	金色金属(连接部位) Golden metal (connector)	-
13	铜色金属带银色电镀层(线芯) Coppery metal with silvery plating (wire)	-
14	黑色印蓝色软塑(线皮) Black printed blue soft plastic (wire jacket)	-
15	黑色塑料(连接部位) Black plastic (connector)	-
16	绿色 PCB Green pcb	-
17	白色塑料(胶水) White plastic (glue)	-
18	黑色塑料(外壳,开关) Black plastic (case, switch)	-
19	银色金属(板,开关) Silvery metal (plate, switch)	-
20	白色塑料(按钮,开关) White plastic (button, switch)	-
21	铜色金属(板,开关) Coppery metal (plate, switch)	-
22	白色塑料(外壳,开关) White plastic (case, switch)	-
23	金色金属带银色电镀层(针脚,开关) Golden metal with silvery plating (pin, switch)	-
24	银色金属(弹簧) Silvery metal (spring)	-
25	银色金属(外壳) Silvery metal (case)	-
26	银色金属带黑色涂层(垫片) Silvery metal with black coating (gasket)	-
27	银色金属(垫片) Silvery metal (gasket)	-
28	银色金属(弹簧) Silvery metal (spring)	-
29	银色金属(板) Silvery metal (plate)	-
30	铜色金属带银色电镀层(板) Coppery metal with silvery plating (plate)	-
31	银色金属(轴) Silvery metal (shaft)	-
32	铜色金属带银色电镀层(螺栓) Coppery metal with silvery plating (bolt)	-
33	金色金属(触片) Golden metal (contact plate)	-



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34	银色金属带铜色电镀层(螺栓) Silvery metal with coppery plating (bolt)	-
35	铜色金属(管子) Coppery metal (tube)	-
36	银色磁铁 1 Silvery magnet1	-
37	银色磁铁 2 Silvery magnet2	-

See Analytes and their corresponding Maximum Allowable Limit in Appendix

分析物及其对应的最大允许限 - 见附录

Parameter 参数	Result 结果									Conclusion 结论
	Lead (Pb) 铅	Cadmium (Cd) 镉	Mercury (Hg) 汞	Chromium VI (Cr VI) 六价铬	PBBs & PBDEs 多溴联苯 &多溴联 苯醚	DBP	BBP	DEHP	DIBP	
Unit 单位	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item(s) 测试项目	-	-	-	-	-	-	-	-	-	-
1	BL	BL	BL	BL	ND*	BL	BL	BL	BL	PASS 通过
2	BL	BL	BL	BL	ND*	BL	BL	BL	BL	PASS 通过
3	BL	BL	BL	BL	ND*	BL	BL	BL	BL	PASS 通过
4	BL	BL	BL	BL	ND*	BL	BL	BL	BL	PASS 通过
5	BL	BL	BL	BL	ND*	BL	BL	BL	BL	PASS 通过
6	BL	BL	BL	BL	ND*	BL	BL	BL	BL	PASS 通过
7	BL	BL	BL	BL	ND*	NA	NA	NA	NA	PASS 通过
8	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS 通过
9	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS 通过
10	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS 通过
11	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS 通过
12	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS 通过
13	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS 通过
14	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS 通过
15	BL	BL	BL	BL	ND*	BL	BL	BL	BL	PASS 通过
16	BL	BL	BL	BL	ND*	BL	BL	BL	BL	PASS 通过
17	BL	BL	BL	BL	BL	BL	BL	BL	BL	PASS 通过



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Parameter 参数	Result 结果									Conclusion 结论
	Lead (Pb) 铅	Cadmium (Cd) 镉	Mercury (Hg) 汞	Chromium VI (Cr VI) 六价铬	PBBs & PBDEs 多溴联苯 &多溴联 苯醚	DBP	BBP	DEHP	DIBP	
Unit 单位	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item(s) 测试项目	-	-	-	-	-	-	-	-	-	-
18	BL	BL	BL	BL	ND*	BL	BL	BL	BL	PASS 通过
19	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS 通过
20	BL	BL	BL	BL	ND*	BL	BL	BL	BL	PASS 通过
21	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS 通过
22	BL	BL	BL	BL	ND*	BL	BL	BL	BL	PASS 通过
23	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS 通过
24	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS 通过
25	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS 通过
26	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS 通过
27	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS 通过
28	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS 通过
29	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS 通过
30	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS 通过
31	BL	BL	BL	Negative*	NA	NA	NA	NA	NA	PASS 通过
32	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS 通过
33	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS 通过
34	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS 通过
35	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS 通过
36	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS 通过
37	BL	BL	BL	BL	NA	NA	NA	NA	NA	PASS 通过

Note / Key 注释:

ND = Not detected 未检出
BL = Below Limit 低于限值

“>” = Greater than 大于
NA = Not applicable 不适用

“<” = Less than 小于
EX = Exempted 豁免



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NR = Not requested 未要求 mg/kg = milligram(s) per kilogram 毫克每千克 = ppm = part(s) per million
Detection Limit: See Appendix.
检出限: 见附表

Remark 备注 :

- The testing approach is listed in table of Appendix.
测试方法 – 见附录。
- * denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, non-uniformity composition, surface flatness.
标有 * 的结果为湿化学测试结果, 其它为 XRF 扫描结果。对于 XRF 扫描, 六价铬结果以总铬量表示, 而多溴联苯 (PBBs) 和多溴二苯醚 (PBDEs) 结果以总溴量表示。此外, 基于, 但不限于, 样品量、厚度、面积、成分的不均匀性、表面平整性等原因, 该评估的 XRF 结果可能与实际浓度有所偏差。
- Only selected example(s) is (are) indicated on the photograph(s) in Comment.
照片只显示被选择的样品 – 见评论。
- According to European Parliament and Council Directive 2011/65/EU, Article 5 “Adaptation of the Annexes to scientific and technical progress”, exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive.
根据欧盟委员会 2011/65/EU 指令中, 条款 5“适应科学技术进步的附件”, 附件 III 和 IV 中列明的测试项目中的材料和部件可予以豁免。



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APPENDIX 附录

List of Analytes and their Corresponding Test Methods, Detection Limit and Maximum Allowable Limit [Compliance Test for European Parliament and Council Directive 2011/65/EU with its Amendments (EU) 2015/863]
 分析物名单、其相应的测试方法、检出限及最大允许限 [合规测试 - 欧盟委员会指令 2011/65/EU 及基订版(EU) 2015/863]:

No.	Name of Analyte(s) 分析物名称	Detection Limit 检出限 (mg/kg)				Maximum Allowable Limit 最大允许限值 (mg/kg)
		X-ray fluorescence (XRF) ^[a] X 射线荧光			Wet Chemistry 湿化学	
		Plastic 塑料	Metallic 金属 / glass 玻璃/ ceramic 陶瓷	Others 其他材料		
1	Lead (Pb)铅	100	200	200	10 ^[b]	1000
2	Cadmium (Cd)镉	50	50	50	10 ^[b]	100
3	Mercury (Hg)汞	100	200	200	10 ^[c]	1000
4	Chromium (Cr)铬	100	200	200	NA	NA
5	Chromium VI (Cr VI)六价铬	NA	NA	NA	3 ^[g, h] / 10 ^[d] / See ^[e, i]	1000 / Negative ^[i]
6	Bromine (Br)溴	200	NA	200	NA	NA
7	Polybromobiphenyls (PBBs)多溴联苯 - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	NA	NA	NA	Each 50 ^[d]	Sum 1000
8	Polybromodiphenyl ethers (PBDEs)多溴联苯醚 - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	NA	NA	NA	Each 50 ^[d]	Sum 1000
9	Dibutyl phthalate (DBP) 邻苯二甲酸二丁酯 Butyl benzyl phthalate (BBP) 邻苯二甲酸丁苄酯 Di-2-ethylhexyl phthalate (DEHP) 邻苯二甲酸二(2-乙基己基)酯 Diisobutyl phthalate (DIBP) 邻苯二甲酸二异丁酯	NA	NA	NA	Each 500 ^[j]	Each 1000

NA = Not applicable 不适用 IEC = International Electrotechnical Commission

^[a] Test method with reference to International Standard IEC 62321-3-1: 2013.

测试方法参照国际标准 IEC 62321-3-1: 2013.

^[b] Test method with reference to International Standard IEC 62321-5: 2013.

测试方法参照国际标准 IEC 62321-5: 2013.

^[c] Test method with reference to International Standard IEC 62321-4: 2013+AMD1: 2017 CSV.

测试方法参照国际标准 IEC 62321-4: 2013+AMD1: 2017 CSV.

^[d] Polymers and Electronics - Test method with reference to International Standard IEC 62321-7-2: 2017.

聚合物及电子 - 测试方法参照欧洲标准 EN 62321-7-2: 2017.

^[e] Metal - Test method with reference to International Standard IEC 62321-7-1: 2015.

金属 - 测试方法参照国际标准 IEC 62321-7-1: 2015.

^[f] Test method with reference to International Standard IEC 62321-6: 2015.

测试方法参照国际标准 IEC 62321-6: 2015.

^[g] Leather - Test method International Standard ISO 17075: 2017.

测试方法参照国际标准 ISO 17075: 2017.

^[h] Other Than Metal, Leather, Polymers and Electronics - Test method with reference to International Standard ISO 17075: 2007.

非金属, 皮革, 聚合物及电子 - 测试方法参照国际标准 ISO 17075: 2007.

Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Parliament and Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Parliament and Council Directive 2011/65/EU, Article 4(1).

金属材料的六价铬结果以阴性和阳性表示。阴性表示六价铬未被检出在测试表面, 即结果被认为符合 2011/65/EU 指令中, 条款 4(1) 的要求。而阳性则表示六价铬存在存在测试表面, 即不符合 2011/65/EU 指令中, 条款 4(1) 的要求。

^[j] Test method with reference International Standard IEC 62321-8: 2017.



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测试方法参照国际标准 IEC 62321-8: 2017.

Testing Approach [Compliance Test for European Parliament and Council Directive 2011/65/EU]:

测试方法[合规测试 - 欧盟委员会指令 2011/65/EU]:

The testing approach was with reference to the following document(s).

测试方法参考下列文件。

- | | |
|---|--|
| 1 | International Standards IEC 62321-1: 2013 and IEC 62321-2: 2021
国际标准 IEC 62321-1: 2013 and IEC 62321-2: 2021 |
| 2 | "RoHS Enforcement Guidance Document Version 1" by EU RoHS Enforcement Authorities Informal Network. (May 2006)
"RoHS 强制指导文件版本 1" EU RoHS 强制委员会非正式网络 (2006, 5月) |
| 3 | "RoHS Regulations - Government Guidance Notes" by United Kingdom Department for Business Innovation & Skills. (February 2011)
"RoHS 章程 - 政府指导注释" 英国贸易和工业局 (2007, 2月) |
| 4 | "Final Report to RoHS substances (Hg, Pb, Cr(VI), Cd, PBB and PBDE) in electrical and electronic equipment in Belgium" by Belgium Federal Public Service Health, Food Chain Safety and Environment. (November 2005)
"比利时关于电子电气类产品 RoHS 受限物质 (汞, 铅, 六价铬, 镉, 多溴联苯和多溴二苯醚)" 比利时公共服务, 健康, 食品链和环境安全联盟 (2005, 11月) |

END 结束